

Notice of Allowability

Application No.

09/987,031

Examiner

Eric Hug

Applicant(s)

KAMADA ET AL.

Art Unit

1731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on January 27, 2005.
2. ☒ The allowed claim(s) is/are 1-6, 12 and 14-18.
3. ☒ The drawings filed on 21 September 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Whitham on September 16, 2005. The application has been amended as follows:

In the Claims:

1. (currently amended) A method for machining a glass substrate, comprising the step of:

forming a V-shaped groove in a glass surface of a glass substrate, by irradiating said glass surface of said glass substrate to be machined with a laser beam from above said glass substrate in a state that said laser beam is condensed ~~into a portion~~ at a point outside of said glass substrate.

2. (currently amended) The method according to claim 1, wherein, in said state said laser beam is condensed ~~in said portion~~ at a point outside and above said glass substrate.

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12. (currently amended) A method for machining a glass substrate, comprising the step of:

forming a concave portion in a glass surface of a glass substrate, by irradiating said glass surface of said glass substrate to be machined with a laser beam from above said glass substrate in a state that said laser beam is condensed ~~into a portion~~ at a point outside of said glass substrate;

wherein the concave portion in the glass substrate has a conical hole shape.

Allowable Subject Matter

Claims 1-6, 12, and 14-18 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1-6 and 14-18 are allowed, because the prior art does not disclose or suggest forming a V-shaped groove in a glass surface of a glass substrate by irradiating the surface from above with a laser beam condensed at a point outside of the glass substrate.

Claim 12 is allowed, because the prior art does not disclose or suggest forming a conical hole shape in a glass surface of a glass substrate by irradiating the surface from above with a laser beam condensed at a point outside of the glass substrate.

It is understood that the V-shaped groove and conical hole formed by the method of the present invention have flat side walls as opposed to prior art laser-formed grooves and holes having a continuously curved or concave wall. The closest prior art Koyama et al (WO 97/35811), cited previously, utilizes a laser focused into a point outside a glass substrate, but the laser is used in conjunction with a mask to form a pattern of concavities.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments filed January 27, 2005 have been fully considered.

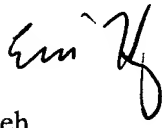
Upon reconsideration, the rejection of claims 1, 2, 4, 16, and 17 under 35 U.S.C. 102(b) as being anticipated by Eesley (US 4,637,862) set forth previously has been withdrawn. It is recognized that the grooves in the glass substrate of Eesley are formed by irradiating a laser-decomposable organometallic compound on the glass, which absorbs sufficient energy to locally heat the glass and cut the grooves, rather than by irradiating the glass surface with a laser beam condensed into a point outside of the glass.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192. The examiner can normally be reached on Monday through Friday, 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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